**INTRODUCTION**

After the initial morphologic evaluation of blood cells, the diagnostic work-up of leukemias contemplates the detection of molecular markers associated with diagnosis and risk stratification. These informations drive the therapy choice and impact on the patient management and outcome.

**METHOD**

RT-QLAMP consists in a molecular multiplex assay able to detect and identify up to 3 gene targets in one homogeneous reaction starting directly from extracted RNA.

**RESULTS**

- **SPECIFICITY LEVEL: 100% on 1072 reps**

- **100% AGREEMENT with RT-PCR on 130 CLINICAL SAMPLES**

**CONCLUSIONS**

The DiaSorin QL-AMP/LIAISON Iam molecular system allows to detect translocations in less than one hour starting from patient RNA. The assay set-up is simple and the one-step procedure decreases complexity and risk of errors and contaminations. The fluorescent format allows real time monitoring in the LIAISON Iam instrument, further decreasing the time-to-results. The user friendly software analyzes data returning objective results, improving reliability and efficiency. All in all, the DiaSorin molecular system represents a novel powerful tool for timely and efficient diagnosis of leukemia.